

Abstract

A Ti-containing ferritic stainless steel sheet and a manufacturing method thereof include stainless steels being formed while a refining load is decreased and having a low yield strength which exhibits superior workability. The Ti-containing ferritic stainless steel sheet contains on mass percent basis: 0.01% or less of C; 0.5% or less of Si; 0.3% or less of Mn; 0.01% to 0.04% of P; 0.01% or less of S; 8% to 30% of Cr; 1.0% or less of Al; 0.05% to 0.5% of Ti; 0.04% or less of N, $8 \leq \text{Ti}/(\text{C}+\text{N}) \leq 30$ being satisfied; and the balance being substantially Fe and incidental impurities, wherein a grain size number of ferrite grain is 6.0 or more, and an average diameter D_p of precipitation diameters, each being $[(\text{a long axis length of a Ti base precipitate} + \text{a short axis length thereof})/2]$, of the Ti base precipitates in the steel sheet is in the range of from $0.05 \mu\text{m}$ to $1.0 \mu\text{m}$.